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In the Claims

1. (Currently amended) A runtime-resource management-method for use with a portable device, said method comprising the steps of:

identifying one or more new application components to be loaded and stored in flash memory of said portable device, each of said one or more new application components having an associated resource description list (RDL);

determining maximum required runtime resources for said one or more new application components from said associated RDLs;

determining the CARSRMAX in the of said portable device;

comparing said maximum required runtime resources for said one or more new application components to said CARSRMAX; and

prohibiting said one or more new application components from loading being loaded and stored in the flash memory of said portable device if said CARSRMAX is less than said maximum required runtime resources.

2. (Currently amended) The method of claim 1, wherein said step of determining said CARSRMAX comprises the steps of:

determining total runtime system resources in the of said portable device;

determining total maximum reserved runtime resources for loaded application components stored in the flash memory of within said portable device; and

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calculating said CARSRMAX based on said total runtime system resources and said total maximum reserved runtime resources.

3. (Currently amended) The method of claim 2, further comprising the steps of:
removing one or more of said ~~loaded~~ application components stored in the flash memory of within said portable device; and
releasing maximum runtime resources reserved for said one or more ~~loaded~~ application components removed from the flash memory of within said portable device, thereby increasing said CARSRMAX ~~in the~~ of said portable device.

4. (Original) The method of claim 1, wherein said CARSRMAX comprises requirements for at least one or more runtime system resources selected from a group consisting of RAM, threads, and sockets.

5. (Currently amended) A runtime-resource management-method for use with a portable device, said method comprising the step of:
reserving maximum runtime resources required for each application component stored in flash memory of loaded into the portable device.

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6. (Currently amended) The method of claim 5, further comprising the step of:
running one or more of said ~~loaded~~ application components stored in flash memory of
on the portable device using no more than said maximum required runtime resources reserved
for each of said one or more ~~loaded~~ application components.

7. (Currently amended) The method of claim 6, wherein said running step comprises
the steps of:

opening said one or more ~~loaded~~ application components stored in flash memory;
monitoring requests for runtime resources by each of said one or more ~~loaded~~
application components stored in flash memory;

comparing runtime resources in use plus runtime resources requested to said maximum
required runtime resources reserved for each of said one or more ~~loaded~~ application
components stored in flash memory; and

preventing each of said one or more ~~loaded~~ application components from using more
than said maximum required runtime resources reserved for each of said one or more ~~loaded~~
application components stored in flash memory.

8. (Currently amended) The method of claim 5, wherein said reserving step comprises:
allocating a segment of RAM within the portable device to each of said ~~loaded~~
application components stored in flash memory based on RAM requirements in an RDL

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associated with each of said ~~loaded~~ application components, said allocated segment of RAM
being for use by said ~~loaded~~ application components stored in flash memory.

9. (Currently amended) The method of claim ~~[[5]]~~ 8, further comprising the steps of:
running one or more of said ~~loaded~~ application components stored in flash memory
using said allocated segments of RAM;
monitoring RAM use by said one or more ~~loaded~~ application components stored in
flash memory; and
preventing each of said one or more ~~loaded~~ application components from using more
than said segment of RAM allocated to each of said one or more loaded application
components stored in flash memory.

10. (Currently amended) The method of claim 5, wherein said reserving step
comprises:
writing thread requirements to a thread table for each of said ~~loaded~~ application
component stored in flash memory based on thread requirements in an RDL associated with
each of said ~~loaded~~ application components stored in flash memory.

11. (Currently amended) The method of claim 10, further comprising the steps of:
running one or more of said ~~loaded~~ application components stored in flash memory;
monitoring thread use by said one or more ~~loaded~~ running application components; and

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preventing each of said one or more ~~loaded~~ running application components from using more threads than said thread requirements listed on said thread table for each of said one or more ~~loaded~~ running application components.

12. (Currently amended) The method of claim 5, wherein said reserving step comprises:

writing socket requirements to a socket table for each of said ~~loaded~~ application components stored in flash memory based on socket requirements in a RDL associated with each of said ~~loaded~~ application components stored in flash memory.

13. (Currently amended) The method of claim 12, further comprising the steps of:
running one or more of said ~~loaded~~ application components stored in flash memory;
monitoring socket use by said one or more ~~loaded~~ running application components; and
preventing each of said one or more ~~loaded~~ running application components from using more sockets than said socket requirements listed on said socket table for each of said one or more ~~loaded~~ running application components.

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14. (Currently amended) A system for managing runtime resources in a portable device, said system comprising:

means for identifying one or more new application components to be loaded and stored in flash memory of said portable device, each of said one or more new application components having an associated resource description list (RDL);

means for determining maximum required runtime resources for said one or more new application components from said associated RDLs;

means for determining the CARSRMAX in the of said portable device;

means for comparing said maximum required runtime resources for said one or more new application components to said CARSRMAX; and

means for prohibiting said one or more new application components from loading being loaded and stored in the flash memory of said portable device if said CARSRMAX is less than said maximum required runtime resources.

15. (Currently amended) The system of claim 14, wherein said means for determining said CARSRMAX comprises:

means for determining total runtime system resources in the of said portable device;

means for determining total maximum reserved runtime resources for loaded application components within stored in the flash memory of said portable device; and

means for calculating said CARSRMAX based on said total runtime system resources and said total maximum reserved runtime resources.

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16. (Currently amended) The system of claim 15, further comprising:

means for removing one or more of said ~~loaded~~ application components ~~within~~ stored
in the flash memory of said portable device; and

means for releasing maximum runtime resources reserved for said one or more ~~loaded~~
application components ~~within~~ removed from the flash memory of said portable device,
thereby increasing said CARSRMAX ~~in the~~ of said portable device.

17. (Currently amended) A system for managing runtime resources in a portable
device, said system comprising:

means for reserving maximum runtime resources required for each application
component ~~loaded into~~ stored in flash memory of the portable device.

18. (Currently amended) The system of claim 17, further comprising:

means for running one or more of said ~~loaded~~ application components ~~on~~ stored in
flash memory of the portable device using no more than said maximum required runtime
resources reserved for each of said one or more loaded application components.

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19. (Currently amended) The system of claim 18, wherein said means for running comprises:

means for opening said one or more ~~loaded~~ application components stored in flash memory;

means for monitoring requests for runtime resources by each of said one or more ~~loaded~~ application components stored in flash memory;

means for comparing runtime resources in use plus runtime resources requested to said maximum required runtime resources reserved for each of said one or more ~~loaded~~ application components stored in flash memory; and

means for preventing each of said one or more ~~loaded~~ application components stored in flash memory from using more than said maximum required runtime resources reserved for each of said one or more ~~loaded~~ application components stored in flash memory.

20. (Currently amended) A computer program product for managing system resources in a portable device, said computer program product comprising:

computer readable program code embodied in a computer readable medium, the computer readable program code comprising at least:

computer readable program code for identifying one or more new application components to be loaded and stored in flash memory of said portable device, each of said one or more new application components having an associated resource description list (RDL);

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computer readable program code for determining maximum required runtime resources for said one or more new application components from said associated RDLs;

computer readable program code for determining the CARSRMAX in the of said portable device;

computer readable program code for comparing said maximum required runtime resources for said one or more new application components to said CARSRMAX; and

computer readable program code for prohibiting said one or more new application components from loading being loaded and stored in the flash memory of said portable device if said CARSRMAX is less than said maximum required runtime resources.

21. (Currently amended) The product of claim 20, wherein said computer readable program code for determining said CARSRMAX comprises:

computer readable program code for determining total runtime system resources in the of said portable device;

computer readable program code for determining total maximum reserved runtime resources for loaded application components within stored in the flash memory of said portable device; and

computer readable program code for calculating said CARSRMAX based on said total runtime system resources and said total maximum reserved runtime resources.

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22. (Currently amended) The product of claim 21, wherein said computer readable program code embodied in a computer readable medium further comprises:

computer readable program code for removing one or more of said loaded application components ~~within~~ stored in the flash memory of said portable device; and

computer readable program code for releasing maximum runtime resources reserved for said one or more ~~loaded~~ application components ~~within~~ removed from the flash memory of said portable device, thereby increasing said CARSRMAX ~~in the~~ of said portable device.

23. (Currently amended) A computer program product for managing system resources in a portable device, said computer program product comprising:

computer readable program code embodied in a computer readable medium, the computer readable program code comprising at least:

computer readable program code for reserving maximum runtime resources required for each application component ~~loaded into~~ stored in flash memory of the portable device.

24. (Currently amended) The product of claim 23, wherein said computer readable program code embodied in a computer readable medium further comprises:

computer readable program code for running one or more of said loaded application components ~~on~~ stored in flash memory of the portable device using no more than

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said maximum required runtime resources reserved for each of said one or more loaded application components stored in flash memory.

25. (Currently amended) The product of claim 24, wherein said computer readable program code for running comprises:

computer readable program code for opening said one or more loaded application components stored in flash memory;

computer readable program code for monitoring requests for runtime resources by each of said one or more loaded application components stored in flash memory;

computer readable program code for comparing runtime resources in use plus runtime resources requested to said maximum required runtime resources reserved for each of said one or more loaded application components stored in flash memory; and

computer readable program code for preventing each of said one or more loaded application components stored in flash memory from using more than said maximum required runtime resources reserved for each of said one or more loaded application components stored in flash memory.